

POPOVA, L.A.; ZAVILEYSKAYA, G.F.; DYGERN, N.T.; PESTEREVA, G.D.

Deep fermentation of nystatin in a pilot plant. Antibiotiki 6
no.1:34-38 Ja '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(MYCOSTATIN)

SURIKOVA, Ye.I.; ZAVILEYSKAYA, G.F.; DYGERN, N.T.; PESTEREVA, G.D.

Utilization of enriched media for fermentation of streptomycin.
Antibiotiki 4 no.4:12-17 J1-Ag '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STREPTOMYCIN metab.)

LEVITOV, M.M.; LUR'YE, L.M.; ZAVILEYSKAYA, G.F.

Role of precursors in the biosynthesis of penicillin. Antibiotiki 6
no.12:1058-1063 D '61. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(PENICILLIN)

LEVITOV, M.M.; GOTOVTSEVA, V.A.; ZAVILEYSKAYA, G.F.

Formation of 6-aminopenicillanic acid during the fermentation
of *Penicillium chrysogenum* on a medium without a precursor.
Antibiotiki 7 no.5:410-414 My '62. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(PENICILLANIC ACID) (PENICILLIUM)

BRINBERG, S.L.; DYGERN, N.T.; ZAVILEYSKAYA, G.F.; PESTEREVA, G.D.

Studies on conditions for the synthesis of florimycin (viomycin).
Antibiotiki 8 no.10:892-895 0 '63.

(MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

LEVITOV, M. M.; KLEYNER, G. I.; GOTOVTSEVA, V. A.; ZAVILEYSKAYA, G. F.; IOFO, R. I.;
KLAPOVSKAYA, K. I.; YUDINA, O. D.

"Penicillinacylase production by escherichia coli in relation to cultivation conditions."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

All-Union Sci Res Inst of Antibiotics, Moscow & Plant for the Production of
Medicinal Products, Riga.

ZAVILEISKII, P. A.

Medical control in physical culture and athletics.
Sovet. med. no. 12:27-29 Dec. 1951.

(CJML 21:3)

1. Moscow.

ZAVILEYSKIY, F. A.

Physical Education and Training

Medical supervision of physical training and sport., Sov. med., 15, no. 12, 1951

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

TUMERMAN, L.A.; ZAVIL'GEL'SKIY, G.B.; IVANOV, V.I.

Mechanism of the phenomenon of thermoluminescence in chloroplasts.
Biofizika 7 no.1:21-30 '62. (MIRA 15:5)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR,
Moskva.

(CHROMATOPHORES)

(LUMINESCENCE)

"APPROVED FOR RELEASE: 03/15/2001

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APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964010013-6"

ZAVIL'GEL'SKIY, G.B.; BORISOVA, O.F.; MINCHENKOVA, L.Ye.; MINYAT, E.Ye.

Interaction of acridine orange with UV-irradiated DNA. Biokhimiya
29 no.3:508-517 My-Je '64. (MIRA 18:4)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR, Moskva.

ACCESSION NR: AP4030793

B/0020/64/155/004/0937/0939

AUTHOR: Zavil'gel'skiy, G. B.; Il'yashenko, B. N.; Minyat, E. Ye. Rudchenko, O. N.

TITLE: Protective action of acridine orange against ultraviolet irradiation of DNA-infected bacteriophage 1 sub Phi 7

SOURCE: AN SSSR. Doklady*, v. 155, no. 4, 1964, 937-939

TOPIC TAGS: bacteria destroyer, bacteriophage, phage, bacteriolytic agent, acridine orange, DNA, desoxyribonucleic acid, deoxyribonucleic acid, biochemical research, physiological research, TNA, spheroplast

ABSTRACT: In the interaction of the basic dye acridine orange (AO) with DNA two complexes are formed: complex I, probably consisting of AO dimers or higher aggregates and complex II is an AO monomer. Complex I is mostly formed with single-chain DNA and RNA, while complex II is formed with native double-chain DNA. The purpose of the present work was to find whether AO can be used as protective substance against inactivation of infectious DNA by UV radiation. In the tests, DNA of the intestinal phage 1 ϕ 7 was used. DNA isolated from 1 ϕ 7 is infectious for spheroplast bacteria. DNA separation was done according to the phenolic

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ACCESSION NR: AP4030793

method. Spheroplasts were prepared from a broth culture of E.coli C. An elaborate test showed that dyeing of infectious DNA with AO in a $5 \cdot 10^{-7}M$ concentration caused practically no screening of UV light. The same test was repeated with $\phi 7$ bacterio. phage. AO dye has no effect on the whole phage (DNA + albumin skin) since it does not penetrate through the albumin skin. Neither does UV radiation. With increased AO concentrations, the quanta input of lethal UV action decreases ($5 \cdot 10^{-7} = 1.6x$; $2.5 \cdot 10^{-6} = 2.85x$; $5 \cdot 10^{-6} = 4.8x$). The tests showed that in a DNA solution dyed with AO and irradiated with UV light (of the nucleic acid absorption spectrum), the dye protects DNA from inactivation by the UV quanta. This means an effective energy migration from the DNA base to the dye with subsequent light output or heat conversion. Orig. art. has: 1 figure, no formulas, no tables.

ASSOCIATION: Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR
(Institute of Radiation and Physico-Chemical Biology AN SSSR);

Institut epidemiologii i mikrobiologii im. N. F. Gamaleya Akademii
meditsinskikh nauk SSSR (Institute of Epidemiology and Microbiology, Academy of
Medical Sciences SSSR)

Card 2/3

ACCESSION NR: AP4030793

SUBMITTED: 30Aug63

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: 13

NO REF SOV: 001

OTHER: 005

Card 3/3

SAVICH, A.P.; ZAVIL'GEL'SKIY, G.B.

Cross-linkages and locally denatured areas induced in double-strand DNA by ultraviolet rays of different wavelengths. Dokl. AN SSSR 162 no.4:952-955 Ja '65. (MIRA 18:5)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR.
Submitted August 22, 1964.

IVANOV, V.I.; TAVELICEL'SKIY, G.B.; KRIVISKIY, A.S.

Protective versene action against injury of some Escherichia coli
phages by ultraviolet rays. Radiobiologiya 5 no.1:112-118 '65.

(MIRA 18:3)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii, Moskva.

ZAVIL'GEL'SKIY, G.B.; MINCHENKOVA, L. Ye.; MINYAT, E. Ye.; SAVICH, A.P.

Development of the denaturation process in DNA irradiated with
ultraviolet rays. Biokhimiia 30 no. 3:652-662 My-Je '65
(MIRA 19:1)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN
SSSR, Moskva.

L 22486-66 INT(1)/T JK

Journal of Microbiology and Biotechnology AN SSSR (Inst. 1)

Effect of inactivating and mutagenic action of UV rays on extracellular bacteria

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 5, 1965, 700-713

TOPIC TAGS: UV ray, bacteriophage, ~~phage~~, mutagenic effect, phage inactivation

ABSTRACT: The effect of UV rays on the inactivation and mutagenic action of bacteriophages was studied. The results show that the inactivation of bacteriophages by UV rays is a process of irreversible inactivation.

Card 1, 2

UDC. 535.31.576.858.9

L 221186-66

ACC NR AP5024112

by shading or protection from UV irradiation, multiple reactivation, reactivation by the host, or by genetic or phenotypic heterogeneity of population. The observed decrease in mutation frequency is not related to increased sensitivity of mutants, reversions, or suppressor mutations. Possible explanations of the observed phenomena are based on the following: phage DNA has noncritical areas, the possibility of energy migration between bases of two-spiral DNA, and disruption of damage in the phage.

IRM

ZAVILJANSKI, I. J.

R. B. CRAGEROVA, MED ZHUR UKR, 1937, 7, 951-965

FRANKL, Jozef, dr.; ZAVILLA, Norbert, dr.

Tuberculous lupus associated with Addison's disease. Tuberkulozis 14
no.6:188-189 Je '61.

1. Somogy megye Tanácsa Kaposvári Kórháza (igazgató: Arató Miklós
dr.) Bőrgyógyászati Osztályának és Kóronctani Intézetének közleménye.

(LUPUS compl) (ADDISON'S DISEASE compl)

NOVIKOV, S.S.; SLOVETSKIY, V.I.; BELIKOV, V.M.; ZAVILOVICH, I.M.;
YEPISHINA, L.V.

Spectrophotometric study of dissociation constants of
1,1-dinitropentane, 1,1-dinitrohexane, and 1,1-dinitrodecane.
Izv. AN SSSR. Otd. khim. nauk no. 3: 520-523. Apr '62. (MIRA 15:3)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Nitro compounds) (Ionization) (Spectrophotometry)

ZAVILOVICH, Mikhail Avraamovich

Osnovy metodologii planirovaniya narodnogo khozyaystva; lekstii po kursu
"planirovaniye narodnogo khozyaystva". Moskva, Gostorgizdat, 1958.

105 (3) p. Tables. 22cm.

At head of title: Ministerstvo Torgovle SSSR and Leningradskiy Institut
Sovetskoy Torgovli.

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ZAVILOVICH, MIKHAIL AVRAAMOVICH

N/5 783.301 .z1

Osnovy metodologii planirovaniya narodnogo khozyaystva; lektali po kursu
"Planirovaniye Narodnogo Khozyaystva" (Basic methodology of planning the
national economy; lectures from a course...) Moskva, Gostergizdat, 1958.

105 (2) p. tables.

At head of title: Ministerstvo Torgovli SSSR. Leningradskiy Institut
Sovetskoy Torgovli im. Fr. Engel'sa.

"Literatura": p. (107)

ZAVILOVICH, Mikhail Avraamovich,; ISHKOVA, A.K., red.; SUDAK, D.M., tekhn. red

[Principles for the methodology of planning the national economy;
lectures in a course on "Planning the national economy."] Osnovy
metodologii planirovaniia narodnogo khoziaistva; lektsii po kursu
"Planirovanie narodnogo khoziaistva." Moskva, Gos. izd-vo torg.
lit-ry, 1958. 105 p. (MIRA 11:12)

(Economics)

ABATUROV, A.I.; VINOGRADOV, M.A.; DUBROVA, G.B.; LOTOREV, L.M.; ZORIN, S.N.;
VASIL'YEV, A.A.; VOLOKITIN, A.S.; BUKOVETSKIY, A.I.; PEMAZKOV, N.S.;
MEZENTSEV, P.V.; YEGORKIN, N.I.; DANILOV, M.M.; LUKASHEV, M.Ya.;
MEYEROVICH, I.L.; KLYUCHEV, A.Ye.; SARYCHEV, V.G.; ZAVILOVICH, M.A.;
NOVOSEL'SKIY, N.M.; GITLITS, S.A.; REZNICHENKO, M.S.; MOROZ, L.P.;
KHETAGUROVA, F.V.; CHOGOVADZE, Sh.K.; RYBOCHENKO, A.A.; BOCHAROVA, N.P.;
GAGLOYEVA, N.A.; KRYUKOVA, T.B.

Rubinshtein, Grigori Leonidovich; 1891-1959. Sov. torg. 33 no.12:56
D '59. (MIRA 13:2)

(Rubinshtein, Grigori Leonidovich, 1891-1959)

ZAVILOVICH, M.A., dotsent, kand.ekonom.nauk; SMIRNOV, Ye.A., red.

[Planning organization of the national economy of the U.S.S.R.; textbook for the course "Planning the national economy of the U.S.S.R."] Organizatsiia planirovaniia narodnogo khoziaistva SSSR; uchebnoe posobie po kursu "Planirovanie narodnogo khoziaistva SSSR." Leningrad, M-vo trgovli RSFSR. Leningr.in-t sovetskoi trgovli im. Fr.Engel'sa, 1959. 142 p.

(MIRA 13:7)

(Russia--Economic policy)

ZAVILOVICH, M.; KRYUKOVA, T.; KATSMAN, L. (Leningrad)

From the specialized state farm to the store. Sov. torg. 33 no.5:
10-12 My '60.

(MIR: 13:11)

(Leningrad--Vegetable trade)

ZAVILYANSKAYA, L.I.; BLETNER, V.M.

Differential diagnosis of asthenic and hypochondriac conditions.
Vrach.delo no.2:147-151 Y '60. (MIRA 13:6)

1. Kiyovskaya psikhonevrologicheskaya bol'nitsa imeni I.P.
Pavlova i gorodskoy psikhonevrologicheskiy dispanser.
(HYPOCHONDRIA) (SCHIZOPHRENIA)

BLEYKHER, V.M.; ZOLOTNITSKIY, R.I.; ZAVILYANSKAYA, L.I.

Psychoses with a periodic course. Zhur.nerv.i psikh. 62 no.6:874-879 '62. (MIRA 15:11)

1. Kafedra psikhiiatrii (zav. - prof. Ya.P.Frumkin) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta imeni A.A.Bogomol'tsa i Kiyevskaya psikhonevrologicheskaya bol'nitsa imeni A.P.Pavlova (glavnyy vrach P.N.Lepekhov).
(PSYCHOSES)

ZAVILYANSKIY, I.Ya., kand.med.nauk (Kiyev)

"Study of disturbances of abstract thinking in psychological patients and their physiological characteristics" by V.P.

Protopopov, H.A.Rushkevich. Reviewed by I.IA.Zavilianskii.

Vrach.delo no.12:1331-1333 D '56. (MIRA 12:10)

(PSYCHOLOGY, PATHOLOGY) (THOUGHT AND THINKING)

(PROTOPOPOV, V.P.) (RUSHEVICH, H.A.)

ZAVILYANS KIY, I. YA.

PASHCHENKO, F.D.; ZAVILYANS'KIY, I.Ya., kand.med.nauk

First conference sponsored by the Pavlov Hospital of Clinical
Psychiatry in Kiev. Medych.zhur. 20 no.2:96-98 '50. (MIRA 11:1)

1. Golovniy likar likarni im. Pavlova (for Pashchenko). 2.
 - Vcheniy sekretar likarnyanoi radi (for Zavilyans'kiy)
- (PSYCHOLOGY)

FRUMKIN, Ya.P., professor; ZAVILYANSKIY, I.Ya., dotsent

"Neural and psychic diseases" by V.V.Mikheev, T.A.Nevzorova.
Reviewed by IA.P.Frumkin, I.IA.Zavilianskii. Sov.med. 21 no.5:
148-149 My '57. (MIRA 10:7)

(NEUROLOGY) (PSYCHIATRY)
(MIKHEEV, V.V.) (NEVZOROVA, T.A.)

ZAVILYANSKIY, I.Ya., kandidat meditsinskikh nauk (Kiyev)

Anniversary of a scientist and physician. Vrach.delo no.8:887
Ag '57. (MIRA 10:8)

(FRUMKIN, IAKOV PAVLOVICH)

ZAVILYANSKIY, Izrail' Yakovlevich

[Methods in psychiatric research; concise manual for students
and physicians] Metodyka psykhiatrychnogo doslidzhennia; korotkyi
posibnik dlia studentiv ta likariv. Kyiv, Derzh.med.vyd-vo URSR,
1958. 125 p. (MIRA 12:4)

(PSYCHIATRIC RESEARCH)

FRUMKIN, Ya.P., prof., doktor med.nauk; ZAVILYANSKIY, I.Ya., kand.med.nauk

Hypochondriac form of schizophrenia. Vop. klin. nevr. i psikh.
no.2:268-290 '58. (MIRA 14:10)
(SCHIZOPHRENIA) (HYPOCHONDRIA)

ZAVILYANSKIY, I., kand.med.nauk, MINTS, A. (Kiyev)

Republic plenary session of the Society of Neuropathologists and
Psychiatrists, devoted to the 40th anniversary of the Great
October Revolution. Vrach.delo no.3:325 Mr'58 (MIRA 11:5)
(UKRAINE--NEUROLOGY)

ZAVILYANSKIY, I. Ya.

FRUMKIN, Ya.P., prof., ZAVILYANSKIY, I.Ya., kand.med.nauk (Kiyov)

Vladimir Petrovich Serbskii; on the 100th anniversary of his
birth. Vrach.delo no.4:433-434 Ap '58 (MIRA 11:6)
(SERBSKII, VLADIMIR PETROVICH, 1858-1917)

ZAVILYANSKIY, I.Ya., kand.med.nauk; VASHETKO, V.K., kand.med.nauk

V.M. Bekhterev as psychotherapist. Vrach.delo no.9:987-989 S'58

(MIRA 11:10)

1. Kiyevskaya psikhiatricheskaya bol'nitsa im. akademika I.P. Pavlova i kafedra psikhiatrii (zav. - prof. Ya.P. Frumkin) Kiyevskogo meditsinskogo instituta.

(BEKHTEREV, VLADIMIR MIKHAILOVICH, 1857-1927)

FRUMKIN, Ya.P., prof.; ZAVILYANSKIY, I.Ya., dotsent

The ethics of psychotherapy; critical evaluation of Freudianism. Mek.
filos.vop.med.i est. no.2:140-149 '60. (MIRA 15:7)
(Psychotherapy)

ZAVILYANSKIY, Izrail' Yakovlevich [Zavilians'kyi, I.IA], kand. med. nauk;
RASIN, S.D., doktor med. nauk, otv. red.; TUBOLEVA, M.V. [Tubolieva,
M.V.], red.

[Treatment by word; psychotherapy] Likuvannia slovom; psikhoterapiia.
Kyiv, 1961. 46 p. (Tovarystvo dlia poshyrennia politychnykh i nauko-
vykh znan' Ukrain's'koi RSR. Ser.6, no.5) (MIRA 14:9)
(PSYCHOTHERAPY)

SHKABARA, Ye.A., kand. tekhnuk; ZAVILYANSKIY, I.Ya., kand. med. nauk;
RAVIKOVICH, S.D., kand. fiz.-mat.nauk; RASIN, S.D., doktor med.
nauk, otv. red.; TUBOLEVA, M.V., red.; MATVIICHUK, A.A., tekhn. red.

[Cybernetics and the brain] Kibernetika i mozg. Kiev, 1961.
52 p. (Obshchestvo po rasprostraneniu politicheskikh i nauch-
nykh znaniy Ukrainskoi SSR. Ser.6, no.23) (MIRA 15:1)
(Cybernetics)

ZAVILYANSKIY, I. Ya., kand.med.nauk

Theory of psychotherapy. Vop. klin. nevr. i psikh. no.2:324-328
'58. (MIRA 14:10)

(PSYCHOTHERAPY)

ZAVILYANSKIY, I.Ya., kand.med.nauk; VASHETKO, V.N., kand.med.nauk (Kiyev)

Methodological observations on antialcohol propaganda. Vrach.delo
no.5:513-514 My '60. (MIRA 13:11)
(ALCOHOLISM)

15-8170

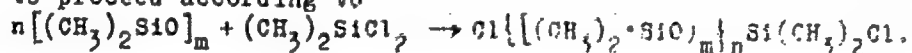
26402
S/062/61/000/008/006/010
B117/R206

AUTHORS: Andrianov, K. A., Severnyy, V. V., and Zavin, B. G.

TITLE: Telomerization reaction of dimethyl cyclosilanes.
Communication I. Production of linear α,ω -dichloro-
dimethyl siloxanes

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniya khimicheskikh
nauk, no. 8, 1961, 1456-1461

TEXT: The authors investigated the telomerization of hexamethyl-cyclo-
trisiloxane and octamethyl-cyclotetrasiloxane with dimethyl-di-chloro-
silane, as well as the effect of the ratio of octamethyl-cyclotetra-
siloxane to dimethyl-dichlorosilane on the composition of the reaction
products. The following were used for the synthesis: crystalline
hexamethyl-cyclotrisiloxane, melting point 62-64°C, boiling point
132-136°C; octamethyl-cyclotetrasiloxane, boiling point 174-176°C;
dimethyl-dichlorosilane with a chlorine content of 55.7 %. The reaction
was found to proceed according to

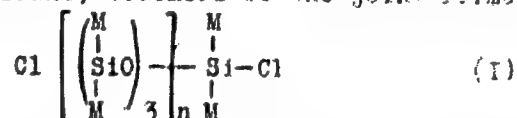


Card 1/6

Telomerization reaction of dimethyl...

26102
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B117/B206

From the reaction of equimolecular amounts of hexamethyl-cyclotrisiloxane and dimethyl-dichlorosilane, telomers of the joint formula



are formed in the dry stainless-steel autoclave at 250°C within 3 hr; from them, 38.5 % telomers with n=1, 24.1 % with n=2, 4.47 % with n=3 and 0.63 % with n=4. Under the same conditions, octamethyl-cyclotetra-siloxane with dimethyl-dichlorosilane yields products which follow the formula:



from them, 36.86 % with n=1, 32.95 % with n=2 and 7.47 % with n=3. The properties of the telomers which follow formulas (I) and (II) as well as analysis results are listed in Table 1. The investigation of the physical properties of the links of the homologous series of α,ω -dichloro-
Card 2/6

Telomerization reaction of dimethyl...

26402
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B117/B206

methyl siloxanes showed that conformable to law boiling points, specific gravities and refractive indices change with the number of silicon atoms in the molecule. No anomalies are observed in this connection. The telomerization of octamethyl-cyclotetrasiloxane with dimethyl-dichlorosilane was investigated at different molar ratios of the components: 1:1, 2:1 and 3:1. Experiments showed (Fig. 3) that telomerization does not yield pure products for any of the ratios investigated. Telomer mixtures with maximum yield of the product corresponding to the ratio concerned, develop continually. When increasing the ratio of the reacting components, the yield of low telomers is reduced and the amount of high-boiling products is greatly increased. There are 3 figures, 5 tables, and 2 references: 1 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: W. Patnode, D. Wilcock, J. Amer. Chem. Soc. 68, 2291 (1946).

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds, AS USSR)

Card 3/6

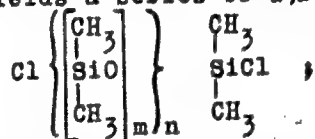
27490

S/062/61/000/009/005/014
B117/B101

5.3700

AUTHORS: Andrianov, K. A., Severnyy, V. V., and Zavin, B. G.
TITLE: Telomerization of dimethyl cyclosiloxane derivatives. II.
Preparation of straight-chain α -chloro- ω -trimethyl-siloxy-
dimethyl siloxanes
PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh
nauk, no. 9, 1961, 1610-1615

TEXT: The reaction of octamethyl cyclotetrasiloxane with trimethyl-chloro
silane is described. It was shown in previous experiments (Ref. 2: DAN
SSSR, 134, no. 6, 1347 (1960); Ref. 3: Izv. AN. Otd. khim. n. 1961,
no. 8) that the reaction of dimethyl-dichloro silane with dimethyl
cyclosiloxanes yields a series of α, ω -dichloro-dimethyl siloxanes of the
structure



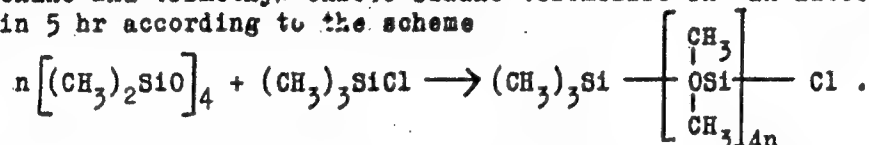
Card 1/4

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B117/B101

Telomerization of dimethyl ...

where m denotes the number of silicon atoms in the initial ring, $n = 1, 2, 3$ etc. In this study, the monofunctional trimethyl-chloro silane and not a difunctional compound was used as chain-terminating substance for the telomerization of dimethyl cyclotrasiloxanes. Equimolar amounts of octamethyl cyclotetrasiloxane and trimethyl-chloro silane telomerize in an autoclave at 250°C within 5 hr according to the scheme



Pure telomers with $n = 2, 3$, and 4 were obtained from the reaction mixture by fractional distillation. The physical constants of the telomers are listed in Table 1. The physical properties exhibit no anomalies. Tests carried out with various molar ratios of octamethyl cyclotetrasiloxane to trimethyl-chloro silane showed that at ratios of 1 : 1, 2 : 1, and 3 : 1 mixtures of telomers only, and no pure compounds were formed. In all of these mixtures the telomer formed in maximum quantity did not correspond to the stoichiometric ratio of the reactants. The telomer having a chain by 4 dimethyl-siloxane units longer than would correspond to the

Card 2/4

Telomerization of dimethyl ...

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B117/B101

stoichiometric ratio of the initial mixture was observed to form in maximum yield. An increase of the octamethyl cyclotetrasiloxane : Trimethyl-chloro silane ratio lowers the yield of the lowest telomers, and highly increases the yield of high-boiling products. Within the range of molar ratios studied, lower trimethyl-chloro silane contents in the initial mixture did not decrease the conversion of octamethyl cyclotetrasiloxane. There are 2 figures, 6 tables, and 4 references: 2 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: D. Wilcock, J. Amer. Chem. Soc. 68, 692 (1946).

ASSOCIATION: Institut elementoorganicheskikh soedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

SUBMITTED: November 28, 1960

Table 1. Physical properties of α -chloro- ω -trimethyl-siloxy-dimethyl siloxanes.

Legend: (1) formula, (2) physical properties, (3) b.p., °C, (p, mm Hg), Card 3/4

ZAVIN, P. M.

8/29/55/03/25/11/173
125/115

AUTHORS: Glushko, O. P., Zavin, P. M.

TITLE: Conversion of triphenylamine bases in acid media. I. Determination of the acidity constants of the amino groups in the cations of the dyes

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, 22, 147-149

NOTE: In order to determine the connection between the structure and the acid-base properties of triphenylamine dyes, the authors examined the constant of the position of a substituent X on the aromatic system of the dyes of the diethyl amino groups. They analyzed the effect of the nature of the substituent X on the constant of the position of the amino group of the dyes (I) and (II) on the constant of the position of the amino group of the dyes (I) and (II) in acid media (acid. 5). The authors of the paper showed that in this case, just as the position of the central carbon atom, the cations (I) are unstable and gradually disappear again. This leads to

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a displacement of the above equilibrium (1), whereas the concentration of the equivalent cation in the solution also decreases. The authors show the decrease in optical density of solutions of three of the dyes analyzed at λ_{max} of the form (4). In dependence on the time at pH 1.1. The optical densities, which were used to calculate the acidity constants of the diethylamine groups, were obtained by extrapolation at the time $t = 0$. When on the other hand the substituent X is in ortho-position to the central carbon atom, the optical density of acid solutions of the dyes is stable (Fig. 2). Therefore a substituent in ortho-position leads to a stability of the equivalent cation. This result is also confirmed by the analysis of the spectra of the dyes (Fig. 3). When a substituent X is in ortho-position to the central carbon atom, it is therefore advantageous by the methine dyes as indicators. It is therefore advantageous to use not methine dyes as indicators, as proposed in publications (Ref. 5), but ortho-substituted derivatives of malachite-green. Table 1 shows 5, but ortho-constants of the diethylamine groups of 13 different substituted dyes of the malachite-green group. These constants differ only relatively little from the acidity constant of malachite-green (2.10-13). Table 2

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shows the variation in the optical density of solutions of the 13 dyes at two different pH values in dependence on the time (0, 4, 8, 12, and 16 minutes after preparation of the solution). The table also shows optical density, λ_{max} of the equivalent cation (type (4)) and the pK_a values of the diethylamine groups of each dye, calculated by a given equation. The determination of the acidity constants and the recording of the absorption spectra of solutions of o-substituted malachite-green are described in the experimental part. The absorption spectra were taken on a type CG-4 (SP-20) spectrophotometer. Table 3 shows the optical density of solutions of o-substituted malachite-green, and the percentage ratio of the types (4) and (5) in the solution at different pH values. There are 3 figures, 3 tables, and 5 references: 4 Soviet, 2 American, and 3 German.

ASSOCIATION: Leninogradskiy tekhnologicheskii institut Iseal Leningrada (Leningrad Technological Institute Iseal Leningrad)

SUBMITTED: June 1, 1959

Card 3/3

ZAVINA, A.

All year long in the air. Kryl.rod. 12 no.2:11 F '61.

(MIRA 14:6)

1. Nachal'nik Vladimirskego aerokluba, g. Vladimir.
(Vladimir--Aeronautics as recreation)

3. 1550

69861
SOV/35-59-9-7232

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 9, p 58 (USSR)

AUTHOR: Zavina, V.

TITLE: Visual and Photographic Observations of Mars During the Period of the Great Opposition of 1956

PERIODICAL: Astron. tsirkulyar, 1958, Jan 11, Nr 188, pp 13 - 14

ABSTRACT: The visual observations of Mars were carried out from September 5 to October 15, 1956, by a 16" refractor of the Abastumani Observatory with a magnification of 272X through red, yellow, green and blue light-filters and without light-filters. The transparency of Mars's atmosphere remained poor from September 5 to 29, 1956. A bright golden ring was observed around the disk, while the contrast degree of the seas was diminished. Light cloud formations were not observed in the atmosphere, only on October 8 a longitudinal band of about the same brightness as the polar cap was visible. On the continents bright regions were observed repeatedly. The Hellas region was especially bright on October 9 and 15. Without the filters the seas seemed grey in September and blue-green in October. On October 9 three parallel lines of canals were distinguishable, which stretched from the South polar

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SOV/35-59-9-7232

Visual and Photographic Observations of Mars During the Period of the Great Opposition of 1956

cover to the Northern side of the Eritrean sea. The South polar cap appeared on September 8 and grew till September 17; towards the middle of October it decreased. A dark rim around the South polar cap in red rays seemed fainter than the seas, and in green and blue ones more pronounced than the seas. The photographs taken of the planet in various sections of the spectrum have been processed. The study of the measurement along the equatorial and polar diameters has shown that for photographic rays the distribution of brightness is more uniform than for visual ones. The photometric analysis of the Eastern edge of the disk disclosed in the terminator (angle of the phase was 22°) two clouds: The Southern one in the latitude of 45° - 60° , the Northern one in the latitude of 45° .

I.I. Lebedeva

4

Card 2/2

ZAVINICHENKO, S.L.

A word from a collective farm mechanic. Zashch. rast. ot vred. 1
bol. 6 no.4:8 Ap '61. (MIRA 15:6)

1. Kolkhoz imeni Lenina, Primorsko-Akhgarskogo rayona, Krasnodarskogo
kraya.

(Plants, Protection of)

ZAVINOVSKIY, I., rukovoditel' radiotekhnicheskogo krushka, chlen Kiyevskogo radio-kluba.

Radio amateurs supply the collective farms with radios. Radio no. 7:24
Jl '53. (MLBA 6:7)

1. Radiotekhnicheskij krushok. 2. Kiyevskiy radioklub.
(Radio in agriculture)

15

18

MAGNETO-SPIN RESONANCE IN THE FERROMAGNETIC MATERIALS ON THE MAG-
 INDUCED BY WAVES IN THE CENTIMETER RANGE. E.K. Zavoiskii. (Journ-
 al of Experimental and Theoretical Physics U.S.S.R., ~~1947~~ 1947, vol.
 17, Oct., pp. 883-888 (in Russian) : (Abstract) Metals Review, 1948,
 vol. 21, May, p. 8). Phenomenon was investigated in a series of
 ferromagnetic alloys such as electrolytic nickel, transformer iron,
 and alloys of the "nichina" type (composition not given).

AS 6-56.4 METALLURGICAL LITERATURE CLASSIFICATION

ACC NR: AP6000975

SOURCE CODE: UR/0286/65/000/022/0057/0057

Card 1/1

UDC: 678.643.043

LEVIDOV, V.A.; ZAVIROV, M.O.

Means of automatically controlling the density of pulp.
Gor. shur. no.10:71 0 '63. (MIRA 16:11)

GOKHMAN, I.S.; YELKINA, L.A.; ZAVIRYUKHA, N.I.

Analysis of technical and economic indices of oxygen-blown
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trud. TSNIICM no.45:75-84 '65. (MIRA 18:9)

SYABRYAY, Vladimir Terent'yevich [Siabrial, V.T.]; KLIMENKO, V.Ya., kand.
geol.-min.nauk, otv.red.; ZAVIRYUKHINA, V.M., red.; BELETSKAYA,
L.Yu. [Bilets'ka, L.IU.], ~~otv.~~red.

[Characteristics of the distribution of brown coal formations
in the Paleogene of the Dnieper Basin; prospects for the
development of the Dnieper brown coal basin] Zakonomirnosti
rozmishchennia burovuhil'nykh formatsii v paleogeni Dniprobasi;
perspektvyv rozvytku Dneiprosv'koho h burovuhil'noo baseinu.
Kyiv, Vyd-vo Akad.nauk Ukrain's'koi RSR, 1962. 122 p.
(Akademia nauk URSR, Kiev, Instytut geologichnykh nauk. Trudy
Seriia geologii rodovyschch Korysnykh Kopalyn. no.9). (MIRA 15:8)
(Dnieper Basin--Lignite)

TSIBRIK, Aleksey Nikolayevich[TSybryk, O.M.]; AVEINSKIY, P.V.
[Avryns'kiy, P.V.], dots., otv. red.; ZAVIRYUKHINA, V.M.,
red.; KODASHEVICH, O.O.[Kodashevych, O.O.], tekhn. red.

[New molding materials; theoretical and experimental investigations in the field of molding materials and the manufacture of molds for steel and iron casting]Novi formuval'ni materialy; teoretychni ta isperymental'ni doslidzhennia v haluzi formuval'nykh materialiv i tekhnologii form dlia stal'noho i chavunnoho lytva. Kyiv, Vyd-vo Akad.nauk URSR, 1962. 125 p.

(MIRA 16:3)

(Sand, Foundry) (Molding (Founding))

DOLENKO, G.N.[Dolenko, H.N.], otv. red.; ZAVIRYUKHINA, V.M., red.

[Problem of the oil and gas potential of the Ukraine] Fy-
tannia naftogazonostosti Ukrainy. Kyiv, Naukova dumka,
1964. 162 p. (MIRA 17:12)

1. Akademiya nauk URSR, Kiev. Instytut geologii i geo-
khimii horiuchykh kopalyn. 2. Chlen-korrespondent AN Ukr.SSR
(for Dolenko).

MAKOVETSKIY, Pavel Stepanovich; DOBROKHOV, N.N., akademik, otv.
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[Brown coal and products of its thermal decomposition]
Burye ugli i produkty ikh termicheskogo razlozheniia. Kiev,
Naukova dumka, 1954. 178 p. (MIRA 17:8)

ZAVIRYUKHINA, V.N.

PORFIR'YEV, V.B., otvetstvennyy redaktor; IADYZHENSKIY, N.R., kandidat
geologo-mineralogicheskikh nauk, redaktor; LAZARENKO, Ye.K., redaktor;
GURZHIY, D.V., kandidat geologo-mineralogicheskikh nauk, redaktor;
ZAVIRYUKHINA, V.N., redaktor; ZHUKOVSKIY, A.D., tekhnicheskii
redaktor

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Materialy diskussii po probleme proiskhozhdeniia i migratsii nefii.
Kiev, 1956. 366 p. (MLRA 10:3)

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korysenykh kopalyn. 2. Chlen-korrespondent Akademii nauk USSR (for
Profir'yev, Lazarenko)
(Petroleum geology)

ZAVIRYUKHINA, A.A.
SEMENENKO, Nikolay Panteleymonovich; POLOVKO, Nataliya Ivanovna;
ZHUKOV, Georgiy Viktorovich; LADIYEVA, Viktoriya Danilovna;
MAKUKHINA, Anna Aleksandrovna; ZAVIRYUKHINA, Y.N., redaktor
izdatel'stva; RODIONOV, S.P., otvetstvennyy redaktor; ROZENTSVEYG,
Ye.N., tekhredaktor

[Petrography of ferrosilicate formations of the Ukraine]
Petrografiia zhelezistokremnistykh formatsii Ukrainskoi SSR. Kiev,
Izd-vo Akad. nauk USSR, 1956. 535 p. (MLRA 10:4)

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(Ukraine--Petrology)

KLIMENKO, Vasiliy Yakovlevich; BURKSER, Ye.S. [Burksr, IE.S.], vidpovidal'nyi
red.; ZAVYRYUKHINA, Y.M. [Zavyriukhyna, V.M.] red. vyd-va; SHVEDOV,
L.M., tekhn.red.

[Petroleum and natural fuel gas of the Ukraine] Nafta ta pryrodnyi
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1957. 55 p. (MIRA 11:4)

1. Chlen-korrespondent AN URSS (for Burksr)
(Ukraine--Petroleum)
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ZAVIRYUKHINA, V.N.

STANISLAVSKIY, P.A.; BONDARCHUK, V.O., akademik, otvetstvennyy redaktor;
NOVIK, Ye.O., redaktor; ZAVIRYUKHINA, V.N., redaktor izdatel'stva;
SIVACHENKO, S.K., tekhnicheskiy redaktor

[Fossil flora of Bathonian and Callovian deposits in the Donets Basin and the Dniper-Donets Lowland] Iskopaemaya flora bataskallovieskikh otlozhenii Donetskogo basseina i Dneprovsko-Donetskoi vpadiny. Kiev, Izd-vo Akad.nauk USSR, 1957. 128 p. (MLRA 10:7)

1. Akademiya nauk USSR (for Bondarchuk). 2. Ohlen-korrespondent
Akademii nauk USSR (for Novik)
(Donets Basin--Paleobotany) (Dnieper Lowland--Paleobotany)

ZAVIRYUKHINA, V.N.

BONDARCHUK, V.G., akademik, otvetstvennyy redaktor; ZAVIRYUKHINA, V.N.,
redaktor izdatel'stva; ZHUKOVSKIY, A.D., tekhredaktor

[Proceedings of a conference on the problem of the extent of the
Namurian and its relation to the Carboniferous system] Soveshchanie
po voprosu ob ob'eme Namiurskogo iarusu i ego polozenii v
kamennougol'noi sisteme. Kiev, 1954. Trudy...Kiev, Izd-vo
Akad. nauk USSR, 1957. 220 p. (MLRA 10:5)

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(Geology, Stratigraphic)

BALUKHOVSKIY, N.F., doktor geol.-min.nauk, otv.red.vypuska; LOGVINENKO,
N.V., prof., doktor geol.-min.nauk, otv.red.vypuska; ZAVIRYUKHINA,
V.M., red.; CHEKHOVICH, N.Ya., red.; RAKHLINA, N.P., tekhn.red.

[Geology and mineral resources of the Kharkov Economic Region]
Geologiya i poleznye iskopaemye Khar'kovskogo ekonomicheskogo
raiona; trudy. Kiev, Izd-vo Akad.nauk USSR. No.1. 1960.
162 p. (MIRA 14:1)

1. Nauchno-tekhnicheskaya konferentsiya po razvitiyu proizvoditel'-
nykh sil Khar'kovskogo ekonomicheskogo rayona. 2. Institut geolo-
gicheskikh nauk AN USSR (for Balukhovskiy). 3. Khar'kovskiy gosu-
darstvennyy universitet (for Logvinenko).
(Kharkov Economic Region--Geology, Economic)

KRASHENINNIKOVA, Ol'ga Vladimirovna; BELEVTSSEV, Ya.N., otv. red.;
ZAVIYUKHINA, V.M., red.; DAKHNO, Yu.B., tekhn. red.

[Lithogenesis of Riphean sediments in the southwestern part
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1962. 210 p. (MIRA 16:8)

1. Chlen-korrespondent AN Ukr.SSR (for Belevtssev).
(Russian Platform--Geology, Stratigraphic)

KRASHENINNIKOVA, Ol'ga Vladimirovna; BELEVTSSEV, Ya.N., otv. red.;
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1. Chlen-korrespondent AN Ukr.SSR (for Belevtsev).

SEMENENKO, N.P., akademik, otv. red.; TKACHUK, L.G., doktor geol.-
miner. nauk, zam. otv. red.; SUBBOTIN, S.I., akademik, red.;
LAZARENKO, Ye.K., red.; BELEVTSSEV, Ya.N., red.; POPOV, V.S.,
red.; SOLLOGUB, V.B., kand. geol.-miner. nauk, red.;
MEL'NIK, A.F., red.; ZAVIRYUKHINA, V.N., red.; DAKHNO, Yu.B.,
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[Materials of the Fifth Congress of the Carpatho-Balkan
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rialy; doklady sovetskikh geologov. Kiev, Izd-vo Akad. nauk
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1. Karpato-Balkanskaya geologicheskaya assotsiatsiya. 5th,
Bucharest, 1961. 2. Akademiya nauk Ukr.SSR (for Semenenko,
Subbotin). 3. Chleny-korrespondenty AN Ukr.SSR (for Lazarenko,
Belevtsev, Popov).

(Carpathian Mountains--Geology)
(Balkan Mountains--Geology)

DUNAYEV, N.N., st. nauchn. sotr., otv. red.; ZAVIRYUKHINA, V.N.,
red.; RAKHLINA, M.P., tekhn. red.

[Plan for the diagrammatic correlation scale of the basic cross sections of Devonian, Carboniferous and Permian sediments in the southwest of the Russian Platform] Proekt skhemy korreliatsii osnovnykh razrezov devonskikh, kamennougol'nykh i permskikh otlozhenii iugo-zapada Russkoi platformy. Kiev, Izd-vo AN URSS, 1963. 72 p. ____ [Diagrammatic correlation scales of the stratigraphy of Devonian, Carboniferous and Permian sediments in the southwestern part of the Russian Platform] Korreliatsionnye skhemy stratigrafii devonskikh, kamennougol'nykh i permskikh otlozhenii iugo-zapadnoi chasti Russkoi platformy. 13 diagrs. (MIRA 17:3)

1. Akademiya nauk URSS, Kiev. Instytut geologichnykh nauk.

AYZENVERG, David Yefremovich; BRAZHNIKOVA, Nina Yevgen'yevna; NOVIK, Yekaterina Osipovna; ROTAY, Avraam Prokhorovich, prof.; SHUL'GA, Polina Lukinichna; BONDARCHUK, V.G., akademik, otv.red.; ZAVIRYUKHINA, V.N., red.izd-va; KADASHEVICH, O.A., tekhn.red.

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Stratigrafiia kamennougol'nykh otlozhenii Donetskogo basseina.
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(MIRA 16:12)

1. AN UkrSSR (for Bondarchuk).

SEMENENKO, Nikolay Panteleymonovich; SIROSHTAN, R.I., starshiy
nauchnyy sotrudnik, otv. red.; ZAVIRYUKHINA, V.N., red.

[Metamorphism of mobile belts:] Metamorfizm podvizhnykh zon.
Kiev, 1963, 256 p. (Akademiya nauk URSR, Kiev. Instytut
geologichnykh nauk. Trudy. Seriya petrografii, mineralogii i
geokhimii, no. 18) (MIRA 17:5)

CHEREDNICHENKO, Aleksandr Ivanovich; SHEVCHENKO, Ye.V., prof., doktor
geol.-mineral. nauk, otv. red.; ZAVIRYUKHINA, V.N. red.

[Tectonophysical conditions governing mineral transformation
in solid rocks.] Tektonofizicheskie uslovia mineral'nykh
preobrazovani v tverdykh gornykh porodakh. Kiev, Naukova dumka,
1964. 183 p. (Akademiia nauk URSR. Instytut geologichnykh nauk.
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PLATONOV, A.N., inzh., otv. red.; POVARENNIKH, A.S., doktor geologo-min. nauk, prof., glav. red.; AGAFONOVA, T.N., kand. geol.-min. nauk, dots., red.; BELEVTSSEV, Ya.N., prof., red.; GAVRUSEVICH, B.A., kand. geol.-min.nauk, dots., red.; GLADKIY, B.N., inzh., red.; IVANTISHIN, M.N., doktor geol.-miner. nauk, red.; KHATUNTSEVA, A.Ya., kand. geol.-miner. nauk, red.; ZAVIRYUKHINA, V.N., red.; DAKHNO, Yu.M., tekhn. red.

[Annals of the Ukrainian Branch of the All-Union Mineralogical Society] Zapiski Ukrainskogo otdelenia Vsesoiuznogo mineralogicheskogo obshchestva. Kiev, Izd-vo AN USSR, 1962. 184 p.
(MIRA 17:3)

1. Akademiya nauk URSR, Kiev. Ukrainskoye otdeleniye Vsesoyuznogo mineralogicheskogo obshchestva. 2. Chlen-korrespondent AN Ukr.SSR (for Belentsev).

SEMENENKO, N.P., akademik, otv. red.; SUBBOTIN, S.I., akademik, red.;
TKACHUK, L.G., doktor geol.-miner. nauk, zam. otv. red.;
LAZARENKO, Ye.K., red.; BELEVTSSEV, Ya.N., red. p. POPOV, V.S.,
red.; SOLLOGUB, V.B., kand. geol.-miner. nauk, red.;
ZAVIRYUKHINA, V.N., red.; MEL'NIK, A.F., red.; DAKHNO, Yu.B.,
tekhn. red.

[Materials of the Fifth Conference of the Carpatho-Balkan
Geological Association] Materialy V s"ezda Karpato-Balkanskoi
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1962. 309 p. (MIRA 16:4)

1. Karpato-Balkanskaya geologicheskaya assotsiatsiya. 5. s"yezd.
2. Akademiya nauk Ukr.SSR (for Semenenko, Subbotin).
(Carpathian Mountains--Geology)
(Balkan Mountains--Geology)

POVARENNIKH, A.S., doktor geol.-miner. nauk, prof., otv. red.;
AGAFONOVA, T.N., kand. geol.-miner. nauk, dots., red.;
GAVRUSEVICH, B.A., kand. geol.-miner. nauk, dots., red.;
GLADKIY, V.N., inzh., red.; IVANTISHIN, M.N., doktor
geol.-miner. nauk, red.; LOGVINENKO, N.V., doktor geol.-
miner. nauk, prof., red.; PLATONOV, A.N., inzh., red.;
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[Chemical composition and internal structure of minerals]
Khimicheskii sostav i vnutrennee stroenie mineralov. Kiev,
Naukova dumka, 1964. 216 p. (MIRA 18:1)

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otdeleniye.

POVARENMYKH Aleksandr Sergeyevich; BURKSER, Ye.S., retsenzont;
IVANTISHIN, M.N., doktor geol.-min. nauk, retsenzont;
LITVIN, A.L., kand. geol.-min. nauk, otv. red.;
CAVRUSEVICH, B.A., dots., red.; ZAVIRYUKHINA, V.N., red.;
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[Hardness of minerals] Tverdost' mineralov. Kiev, Izd-vo
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1. Chlen-korrespondent AN Ukr. SSR (for Burkser).

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doktor geol.-min. nauk, otv. red.; ZAVIRYUKHINA, V.N.,
red.

[Tectonic and physical conditions governing mineral
transformations in solid rocks] Tektonofizicheskie uslo-
viia mineral'nykh preobrazovani v tverdykh gornykh po-
rodakh. Kiev, Naukova dumka, 1964. 183 p.

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AYZEN/ERG, D.Ye.; BELEVTSSEV, Ya.N.; BORDUNOV, I.N.; BORISENKO, S.T.;
BULKIN, G.A.; GORLITSKIY, B.A.; DOVGAN', M.N.; ZAGORUYKO,
L.G.; KAZAKOV, L.R.; KALYAYEV, G.I.; KARASIK, M.A.; KACHAN,
V.G.; KISELEV, A.S.; LAGUTIN, P.K.; LAZARENKO, Ye.K.;
LAZARENKO, E.A.; LAPITSKIY, E.M.; LAPCHIK, F.Ye.; LAS'KOV,
V.A.; LEVENSHTeyN, M.L.; MALAKHOVSKIY, V.F.; NITKEYEV, M.V.;
PRUSS, A.K.; SKARZHINSKIY, V.I.; SKURIDIN, S.A.; SOLOV'YEV,
F.I.; STRYGIN, A.I.; SUSHCHUK, Ye.G.; TEPLITSKAYA, N.V.;
FEDYUSHIN, S.Ye.; FOMENKO, V.Yu.; SHKOLA, T.N.; SHTERNOV,
A.G.; YAROSHCHUK, M.A.; ZAVIRYUKHINA, V.N., red.

[Problems of metallogeny in the Ukraine] Problemy metallo-
genii Ukrainy. Kiev, Naukova dumka, 1964. 254 p.
(MIRA 18:1)

1. Akademiya nauk URSR, Kiev. Instytut geologichnykh nauk.

Z. P. 1956
POLAND / General Biology. General Hydrobiology

B-6

Abs Jour: Ref Zhur - Biol., No 6, 1958, 23865

Author : Zavisha

Inst : Not given

Title : Proper Direction of Developing Lake Management.

Orig Pub: Postepy nauk roln., 1956, 3, No 1, 75-81

Abstract: No abstract.

Card 1/1

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